## Response to Comments on Technical Memorandum on Data Gap Investigation, Remedial Investigation, Wilcox Oil Company Superfund Site, Revision 01

## 12/4/2020

	Comment from EPA	EA Response
1	In Figure 2, MW3 is not labeled.	The figure has been updated.
2		As stated in Section 2.4, well WPA-GW-8 was not installed due to refusal. WPA-GW-8 and WPA-GW-
	In Figure 2, WPA-GW-8 is mapped in nearly the same location as WPA-GW-5. Is it mapped in the correct location?	5 are mapped in the correct location. Text has been added to expand upon the close location of
	Does not seem likely that the field team would place these so close together. Why could it not be completed?	WPA-GW-8 and WPA-GW-5.
3	In Table 1, provide a note for WPA-GW-2, 3, and 8 saying why there are no data.	A note in Table 1 was added to address why there are no data for WPA-GW-2, 3, and 8.
4	In Figure 4, rename the red square, as these observations are not all NAPL.	Red square was renamed as 'Soil Sample Location with Product/Sheen'.
5	In Figure 4, perhaps add a delineation line for the NAPL/product and a secondary line for the sheen?	Two delineation lines were added - one for product and one for sheen.
	In Figure 4, add additional text that clearly indicates that these locations are marked only if a sheen or product	This information was added into the 'Notes'.
	was noted and that borings with discoloration or odor are not marked on the map.	
<b>⊢</b>	·	DCLL was relabeled to IMCLL for wells MDA CM/2 and MMA/4 in Figure 4
	In Figure 5, WPA-GW-2 and GW-4 are labeled as RSL. This is the MCL map.  In Section 2.1 and Figure 3, the text indicates that recordings were made at 5 locations; however, only 3 are	RSL' was relabeled to 'MCL' for wells WPA-GW-2 and MW-4 in Figure 4.
8		All 5 recordings provided good results and the missing 2 have been added into Figure 3.
	shown on the map. Clarify whether recordings were made at all 5 or attempted at 5 with only 3 giving good	
F	results.	
9	In Section 3.1, please include a statement related to the surface water concentrations and the results of the ECO	
-	& HH risk assessment. No identified excess risk identified for Sand Creek.	A statement has been added to the text.
10	Section 3.1 states that the water is perched and is a function of precipitation and infiltration. Section 3.2 indicates	Section 3.2 has been corrected to clarify that this is an unconfined unit.
	that this is a confined unit. Please clarify.	
11	In Section 3.4, the difference between dissolved and total lead is 'significant' while the comparison of totals to	EA's geochemist reviewed the lead data and stated the following: There is a significant difference in
	dissolved for other metal is not. Similarly, concentrations of metals appear to be 'significantly' higher in the	the dissolved concentrations of lead in the filtered and unfiltered samples that are likely attributed
	temporary wells vs the monitoring wells (similar screened intervals). Is there a possible explanation for this or a	to precipitates or sorbed onto particles collected in the unfiltered (total) samples. I also noticed that
	data gap that needs to be addressed?	the iron concentrations are quite high ranging from a few mg/L to a few hundred mg/L. This
		indicates that there is probably high ferrous iron in the water especially at the mildly acidic
		conditions in the wells. When the iron oxidizes at the wells it forms colloidal iron hydroxide particles
		that sorb lead strongly. This effectt is more pronounced in the temporary wells most likely because
		they are open hole, which would allow air to oxidize the iron and less filtration of colloids if they
		develped in the well bore.
		developed in the well bore.
		Section 2.4 explains that the temporary wells did not receive a filter pack and text was added to
		state that they did not produce enough water to develop. This would result in more sediment
		(turbid) samples and higher concentrations of metals.
		(tarbia) samples and nigher concentrations of metals.
12	In Section 3.4, the text appears to indicate that low oxygen is only present in MW-1 and MW-4. However,	GW-13 is no longer included in the contours shown in Figures 8-12 nor is it used as a reference well,
	according the the map, the only location with elevated oxygen is GW-13. Should GW-13 be used in this mapping	
	given the screened intervals are not in the same units as the monitoring or temporary wells?	changes.
12	In Section 4, please expand bullet 1 to indicate that the water is through seeps in the banks.	Text added to clarify groundwater discharge is through seeps in the bank.
	In Section 4, please re-write bullet 6.	Has been rewritten.
	In Section 4, bullet 7, clarify that this indicates these are in addition to those identified in the RI.	Text added to specify these areas are in addition to those identified during the RI.
	Address typos and text errors in Section 2.4, last paragraph, sentence 2.	Revised by adding words and removing misplaced words.
	Address typo in Section 2.4.1, WPA-GW-07.	Revised by removing typo in 'product'.
	Address punctuation and typo in Section 3.4, paragraph 1, last sentence.	Revised by adding a period and fixing several typos.
	In Table 4, the MCL column is blank on follow-on pages.	Revised.
	When EA discusses investigating signs of MNA, that is incorrect. They are not looking for evidence of monitored	none no en
20	natural attenuation because they are not actually monitoring (yet). They are looking for evidence of natural	
	attenuation (NA).	Text has been revised.
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Notes:  MCL = Maximum Contaminant Level		
	NAPL = non-aqueous phase liquid	
	RSL = Risk screening level.	
<u> </u>	NOL - Mak aciecining level.	